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Methods and compositions for regulating immunity are disclosed.

5 For enhancing an immune response, agents that inhibit OX-2 are administered. Such methods are useful in treating cancer. For suppressing an immune response, an OX-2 protein or a nucleic acid encoding an OX-2 protein is administered. Such methods are useful in preventing graft rejection, fetal loss, autoimmune disease, allergies and in inducing tumor cell

10 growth.

[illegible]